

CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and the applicant reserves the right to claim this subject matter in a continuing application:

1. (Currently Amended) A scanning method applicable for use in a scanner having a document plane for supporting a document, the method comprising:

scanning the document plane to obtain a distribution range of a light source, the distribution range defining a first area of the document plane; and

scanning a second area of the document plane covered by the document to extract an image of the document, the second area being smaller than the first area, where the second area of the document plane corresponds to an orientation of the document positioned at an arbitrary angle on the document plane; and

changing an orientation of the distribution range to correspond with the arbitrary angle of the document.

2. (Cancelled)

3. (Currently Amended) The method according to claim [[2]] 1, where the orientation of the distribution range is changed by an angle offset from a moving direction of a scan module.

4. (Previously Presented) The method according to claim 1, where the first area of the document plane is as large as a scan window.

5. (Previously Presented) The method according to claim 1, where the light source comprises a built-in transparency adapter.

6. (Previously Presented) The method according to claim 1, where the distribution range is obtained from a preview scan.

7. (Previously Presented) The method according to claim 1, further comprising scanning a calibration window to calibrate a brightness of the light source, wherein the calibration window is located within the distribution range.

8. (Currently Amended) A method of capturing a scanning position of a document in a flatbed scanner with transparent scanning functionality, the flatbed scanner having an optical scan module and an original document plane for supporting the ~~[[a]]~~ document, the optical scan module moving generally parallel to the original document plane, the method comprising:

providing a planar plane light source with a distribution range covering a region of the original document plane to be scanned ~~of the document~~; and

using the optical scan module to scan the original document plane once to read the distribution range, so as to capture the scanning position of the document on the original document plane;

changing an orientation of the planar light source to correspond with the scanning position of the document; and

using the optical scan module to scan the document to obtain an image of the document.

9. (Cancelled)

10. (Currently Amended) The method according to claim 8, where providing the planar plane light source includes providing an external transparency adapter.

11. (Currently Amended) The method according to claim 8, where providing the planar plane light source includes providing an external transparency adapter over the original document plane.

12. (Currently Amended) The method according to claim 8, where providing the planar plane light source includes providing a built-in transparency adapter.

13. (Currently Amended) The method according to claim 8, where providing the planar plane light source includes providing a built-in transparency adapter over the original document plane.

14. (Currently Amended) The method according to claim 8, where using the optical scan module to scan the original document plane further comprises scanning a calibration window to calibrate brightness of the planar plane light source.

15. (Cancelled)

16. (Previously Presented) The method according to claim 17, where only the second area of the document plane is scanned subsequent to the preview scan to extract the image of the document.

17. (Previously Presented) The method according to claim 6, where the second area of the document plane is scanned subsequent to the preview scan.

18. (Cancelled)

19. (Currently Amended) The method according to claim ~~8~~ 18, where using the optical scan module to scan the ~~region covered by the distribution range to extract the image of the document~~ comprises scanning ~~seans~~ solely the region covered by the distribution range.

20. (Previously Presented) The method according to claim 8, where using the optical scan module to scan the original document plane comprises moving the optical scan module along the original document plane.

21. (Currently Amended) A scanning apparatus comprising:
an original document plane; and
an optical scan module, [[; and]] where the optical scan module is enabled to scan a transparent document by ~~first~~ performing a preview scan of the original document plane to obtain

a distribution coverage of a planar plane light source, by identifying a scan region corresponding to an arbitrary position of the transparent document on the original document plane, by changing an orientation of the distribution coverage corresponding to the arbitrary position, and by subsequently performing a scan of [[a]] the scan region within the distribution coverage of the plane light source to extract an the image of the transparent document.

22. (Currently Amended) The scanning apparatus according to of claim 21, where the optical scan module is further enabled to scan a reflective document.

23. (Currently Amended) The scanning apparatus according to of claim 21, where the optical scan module is further enabled to calibrate brightness of the planar plane light source via a calibration window.

24. (Currently Amended) The scanning apparatus according to of claim 21, further comprising the planar plane light source.

25. (Currently Amended) The scanning apparatus according to of claim 24, where the planar plane light source comprises an external transparency adapter, the external transparency adapter disposed over the original document plane.

26. (Currently Amended) The scanning apparatus according to of claim 24, where the planar plane light source comprises a built-in transparency adapter, the built-in transparency adapter disposed over the original document plane.

27. (Currently Amended) The scanning apparatus according to of claim 24, where the planar plane light source is mounted to a top lid of the scanning apparatus.

28. (Currently Amended) The scanning apparatus according to of claim 21, where the distribution coverage is as large as a scan window of the scanning apparatus.

29. (Currently Amended) The scanning apparatus according to ~~of~~ claim 21, where the optical scan module is further enabled to perform the scan to extract the image of the transparent document solely within the distribution coverage of the planar ~~plane~~ light source.

30. (Currently Amended) The scanning apparatus according to ~~of~~ claim 21, where the scanning apparatus is operable to scan the transparent document without use of a transparent film holder.

31. (New) The scanning apparatus according to claim 21, where the arbitrary position comprises an arbitrary angle.

32. (New) The scanning apparatus according to claim 31, where the orientation of the distribution coverage is changed corresponding to the arbitrary angle.

33. (New) The method according to claim 8, where the scanning position comprises an arbitrary angle.

34. (New) The method according to claim 33, where the orientation of the planar light source is changed corresponding to the arbitrary angle.